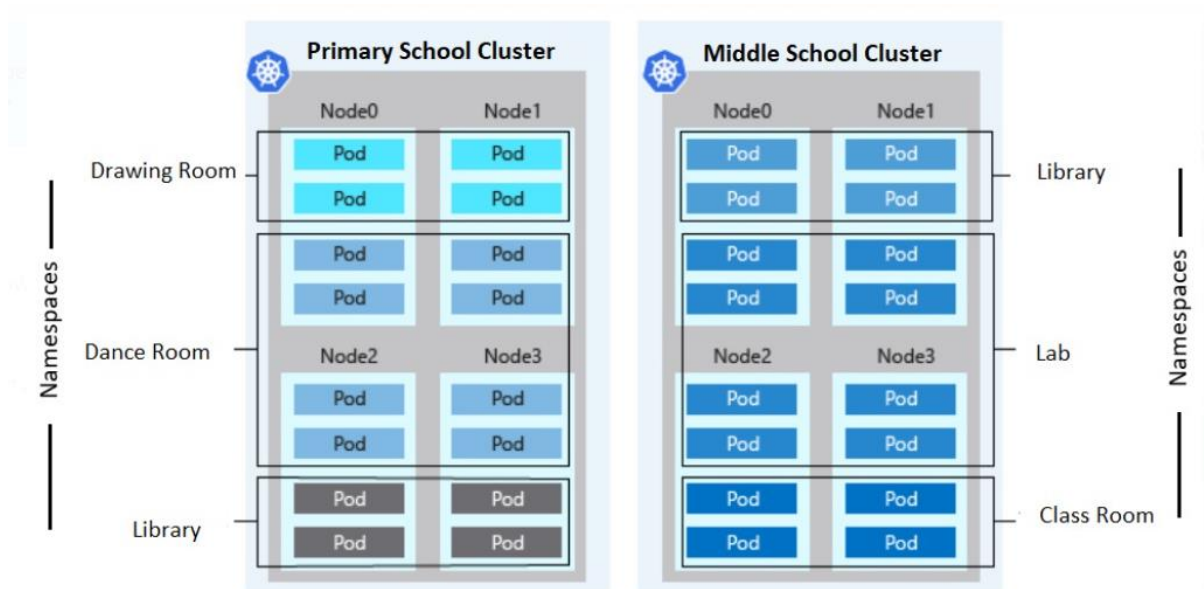


## Homework 1



Student "Renald" should have access to "Dance Room" namespace in Primary School cluster and "Library" on both clusters.

Student "Ramesh" should have access to "Drawing Room" in Primary and "Library" in Middle School cluster.

How to connect multiple clusters from same terminal as different users with different level of access? How to configure, where to configure?

Answer:

In Kubernetes a file that is used to configure access to clusters is called a kubeconfig file.

kubeconfig file is used to organize information about clusters, users, namespaces, and authentication mechanisms. The kubectl command-line tool uses kubeconfig files to find the information it needs to choose a cluster and communicate with the API server of a cluster.

By default, kubectl looks for a file named config in the \$HOME/.kube directory.

```

apiVersion: v1
clusters:
- cluster:
    certificate-authority: fake-ca-file
    server: https://PrimarySchoolCluster.com
    name: PrimarySchoolCluster
- cluster:
    certificate-authority: fake-ca-file
    server: https://MiddleSchoolCluster.com
    name: MiddleSchoolCluster
contexts:
- context:
    cluster: PrimarySchoolCluster
    namespace: DanceRoom
    user: Renald
    name: Renald-DanceRoom
- context:
    cluster: PrimarySchoolCluster
    namespace: Library
    user: Renald
    name: Renald-PrimaryLibrary
- context:
    cluster: MiddleSchoolCluster
    namespace: Library
    user: Renald
    name: Renald-MiddleLibrary
- context:
    cluster: PrimarySchoolCluster
    namespace: DrawingRoom
    user: Ramesh
    name: Ramesh-DrawingRoom
- context:
    cluster: MiddleSchoolCluster
    namespace: Library
    user: Ramesh
    name: Ramesh-Library
current-context: ""
kind: Config
preferences: {}
users:
- name: Renald
  user:
    client-certificate: fake-cert-file
    client-key: fake-key-file
- name: Ramesh
  user:
    client-certificate: fake-cert-file
    client-key: fake-key-file

```

If I want connect "MiddleSchoolCluster" as user "Ramesh" to access pods in "Library" namespace then I have to use command:

```

kubect1 config use-context Ramesh-Library

kubect1 get pods

```